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**Flame-retarding polyurethane compsn. for sealing cable hole - contg. room temp.-curable polyurethane compsn. of poly-isocyanate(s) and poly-ol(s), inorganic flame-retarding material and graphite powder**

Patent Assignee: HITACHI CABLE LTD (HITD )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 1040588	A	19890210	JP 87197540	A	19870807	198912 B

Priority Applications (No Type Date): JP 87197540 A 19870807

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 1040588	A		5		

Abstract (Basic): JP 1040588 A

Flame-retarding polyurethane compsn. comprises (A) 100 pts. wt. of room temp.-curable polyurethane compsn. comprising polyisocyanate(s) which is liq. at room temp. and has mol. wt. of 200-1000 and polyol(s) which is liq. at room temp., (B) 150-300 pts. wt. of inorganic flame-retarding material and (C) 10-50 wt.% of expandable graphite powder.

Pref. the isocyanate is e.g. liquefied isomer of diisocyanate or polymethylene polyphenyl isocyanate. The polyol is e.g. propylene glycol, glycerol, polyol prepd. by addn. reacting bisphenol A with propylene oxide, castor oil or liq. polybutadiene contg. terminal hydroxyl gp., (B) is e.g.  $Al_2O_3 \cdot 3H_2O$ ,  $Mg(OH)_2$ ,  $Ca(OH)_2$ , Mg or Zn-borate, ammonium polyphosphate,  $Sb_2O_3$ ,  $CaCO_3$ , talc, clay, powdery quartz, mica powder or  $TiO_2$ . (C) is e.g. prod. prepd. by reacting graphite with  $H_2SO_4$  under oxidative conditions, graphite molten with alkali(ne earth) metal, graphite prepd. by reacting graphite with halogen or halogen-contg. cpd. or graphite prepd. by reacting graphite with metal halide at 200 deg.C.

USE/ADVANTAGE - Compsn. has high sealing workability. Compsn. sealed cable hole does not drip at flame and has high flame-retarding activity.

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Title Terms: FLAME; RETARD; POLYURETHANE; COMPOSITION; SEAL; CABLE; HOLE; CONTAIN; ROOM; TEMPERATURE; CURE; POLYURETHANE; COMPOSITION; POLY; ISOCYANATE; POLY; OL; INORGANIC; FLAME; RETARD; MATERIAL; GRAPHITE; POWDER

Derwent Class: A25; A85; L03; X12

International Patent Class (Additional): C08K-003/04; C08L-075/04;

C09K-003/10; C09K-021/02; H02G-003/22

File Segment: CPI; EPI